Amendments to the Claims

Please cancel claims 1-8 without prejudice. Please add new claims 9-28 as shown below in the List of Claims.

List of Claims

1-8. Cancelled.

- (New) A process for obtaining a purified gas by removing polysulfanes from crude gas formed during the production of hydrogen sulfide, comprising:
 - a) passing said crude gas through a wash system where said crude gas is brought into contact with a wash solution comprising water or methanol; and
 - b) collecting said purified gas from the wash solution of step a).
- (New) The process of claim \oint , wherein said crude gas comprises greater than 80% by volume of H₂S and 100-2000 vpm of polysulfanes of the formula H₂S_n, wherein n = 2-8.
- (New) The process of claim 100, wherein said polysulfanes are present in said crude gas at 400-1500 vpm.
- (New) The process of claim \$6, wherein said wash system is a jet washer.
- (New) The process of claim 9, further comprising a second wash step in which the purified gas produced in step a) is passed through a counter-current washer comprising an aqueous or methanolic solution.
- (New) The process of claim , further comprising a second wash step in which the purified gas produced in step a) is passed through an adsorber bed.
- (New) The process of claim \$1, wherein relative to said crude gas, the polysulfanes in said purified gas have been reduced by 50-99.5%.

(New) The process of claim \$\forall\$, wherein said process is carried out at a temperature of 0-150°C.

- (New) A process for obtaining a purified gas by removing polysulfanes from crude gas formed during the production of hydrogen sulfide, comprising:
 - passing said crude gas through a wash system comprising an aqueous or methanolic solution containing 0.5-20 wt% of an alkali or alkaline earth hydroxide or oxide; and
 - b) collecting said purified gas from the aqueous or methanolic solution of step a).

(New) The process of claim $\sqrt{1}$, wherein said crude gas comprises greater than 80% by volume of H₂S and 100-2000 vpm of polysulfanes of the formula H₂S_n, wherein n = 2-8.

(New) The process of claim 1/8, wherein said polysulfanes are present in said crude gas at 400-1500 vpm.

10

(New) The process of claim 17, wherein relative to said crude gas, the polysulfanes in said purified gas have been reduced by 50-99.5%.

(New) The process of claim 14, wherein said wash system is a jet washer and said process further comprises a second wash step in which the purified gas of step a) is passed through either: a counter-current washer comprising an aqueous or methanolic solution; or an adsorber bed.

- (New) A process for obtaining a purified gas by removing polysulfanes from crude gas formed during the production of hydrogen sulfide, comprising:
 - a) passing said crude gas through a wash system comprising an aqueous or methanolic solution containing 1-20 wt% of a compound selected from the group consisting of:

- i) an organic amine of the formula $(C_nH_{2n+1})_xNH_y$, where n=1-3, x=2 or 3, and y=0 or 1;
- ii) an amino alcohol of formula $(C_nH_{2n+1}O)_xNH_y$, where n = 1-3, x = 2 or 3, and y = 0 or 1; and
- iii) ammonia;
- b) collecting said purified gas from the aqueous or methanolic solution of step a).
- (New) The process of claim 22, wherein said compound is an organic amine of the formula $(C_nH_{2n+1})_xNH_y$, where n = 1-3, x = 2 or 3, and y = 0 or 1.
- (New) The process of claim 22, wherein said compound is an amino alcohol of formula $(C_nH_{2n+1}O)_xNH_y$, where n = 1-3, x = 2 or 3, and y = 0 or 1.
- (New) The process of claim 22, wherein said compound is ammonia.
- (New) The process of claim 22, wherein said crude gas comprises greater than 80% by volume of H_2S and 100-2,000 vpm of polysulfanes of H_2S_n , where n = 2-8.
- (New) The process of claim 22, wherein relative to said crude gas, the polysulfanes in said purified gas have been reduced by 50-99.5%
- (New) The process of claim 22, wherein said wash system is a jet washer and said process further comprises a second wash step in which the purified gas of step a) is passed through either: a counter-current washer comprising an aqueous or methanolic solution; or an adsorber bed.